**LISTING OF THE CLAIMS** 

1. (Previously Presented) A blood purification device comprising:

a blood circuit having an arterial blood circuit and a venous blood circuit;

a blood pump disposed in said arterial blood circuit;

a blood purifier connected to the blood circuit between said arterial blood circuit and said

venous blood circuit, and configured to purify blood flowing in said blood circuit;

a first measuring unit disposed in said arterial blood circuit and configured to measure a

blood concentration of said arterial blood circuit;

a second measuring unit disposed in said venous blood circuit and configured to measure a

blood concentration of said venous blood circuit;

a calculating unit configured to calculate a measurement value and a theoretical value, the

measurement value referring to a ratio of said blood concentrations measured by said first

measuring unit and said second measuring unit, and the theoretical value referring to a blood

concentration ratio obtained by at least one formula based on parameters including a preset blood

flow rate of said blood pump and a preset blood purifying rate of said blood purifier; and

an evaluation unit configured to evaluate whether said measurement value and said

theoretical value are approximately equal, wherein

said calculating unit performs a calculation in response to a result of evaluation by said

evaluation unit to determine a performance of at least one of said blood pump and said blood

purifier using said at least one formula.

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2. (Previously Presented) The blood purification device of claim 1, wherein:

said blood purifier includes a water removing unit connected to said blood purifier and

configured to remove water from blood flowing in said blood purifier; and

said preset blood purifying rate is a preset water removal rate of said water removing unit.

3. (Previously Presented) The blood purification device of claim 2, further comprising:

a substitution fluid supplying unit configured to supply a substitution fluid into said blood

circuit, wherein

said calculating unit configured to calculate a theoretical value referring to a ratio of the

blood concentrations obtained by the at least one formula based on parameters including a preset

substitution fluid supplying rate of said substitution fluid supplying unit and a filtration rate of said

blood purifier in addition to said preset blood flow rate and said preset water removal rate.

4. (Previously Presented) The blood purification device of the claim 1, further

comprising:

a reporting unit configured to report when a ratio difference between said measurement

value and said theoretical value, which is evaluated by said evaluation unit, is larger than a

predetermined acceptable ratio difference.

5. (Previously Presented) The blood purification device of the claim 2, further

comprising:

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a reporting unit configured to report when a ratio difference between said measurement

value and said theoretical value, which is evaluated by said evaluation unit, is larger than a

predetermined acceptable ratio difference.

6. (Previously Presented) The blood purification device of the claim 3, further

comprising:

a reporting unit configured to report when a ratio difference between said measurement

value and said theoretical value, which is evaluated by said evaluation unit, is larger than a

predetermined acceptable ratio difference.

7. (Canceled)